



U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

# Advisory Circular

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<b>Subject:</b> INSTALLATION, REMOVAL, OR CHANGE OF IDENTIFICATION DATA AND IDENTIFICATION PLATES ON AIRCRAFT ENGINES	<b>Date:</b> 11/6/85 <b>Initiated by:</b> AWS-200	<b>AC No:</b> 45-3 <b>Change:</b>
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1. **PURPOSE.** This advisory circular (AC) provides information and guidance concerning the installation, removal, or change of identification data and identification plates on aircraft engines. This AC identifies an acceptable means, but not the only means, of compliance with Federal Aviation Regulations Part 45.

2. **RELATED FEDERAL AVIATION REGULATIONS (FAR) SECTIONS.** Sections 43.3, 43.9, 43.11, 45.11, and 45.13.

3. **BACKGROUND.** FAR Section 45.11 sets forth the requirements for each aircraft engine manufactured under a type or production certificate to be identified by means of a fireproof identification (ID) plate. FAR Section 45.13 requires specific identification information on the ID plate. The identification information includes the name of the builder, the model designation, the builder's serial number, the type certificate number (if any), production certificate number (if any), and the established rating. The Federal Aviation Administration (FAA) requires the use of identification plates and the data contained thereon to identify the specific FAA approved engine configuration and the fact that it was manufactured and approved under the provisions of an FAA production approval. Additionally, the regulations require that the identification plate be affixed to the engine at an accessible location, and in such a manner that it will not likely be defaced or removed during normal service, or lost or destroyed in an accident.

4. **DISCUSSION.**

a. Problems have arisen, since the advent of the turbine engine modular concept, with respect to engine identification. A significant feature of turbine engines is that separate sections (known as modules) are devoted to particular functions. A typical engine consists of a compressor section, a combustion section, turbine section, and exhaust section. These modules are not independently approved by the FAA, but are approved as a part of the complete engine type design.

b. Aircraft engine manufacturers in compliance with FAR Sections 45.11 and 45.13 identify each complete engine by affixing an engine ID plate to one of the modules. That engine ID plate does not identify the module but does serve to identify the assembly of modules that make up the complete engine approved under a type certificate. That module therefore serves only as a vehicle on which to affix the engine ID plate.

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c. When the **module** to which the engine ID plate is affixed requires replacement, the ID plate **would need** to be removed and reinstalled on the replacement **module** in order to maintain the identification of the engine. This is analogous to an aircraft, when the member to which the aircraft ID plate is affixed is **damaged**, the ID plate **would be removed** from the **damaged** member and reinstalled on the **replacement member** since that ID plate **serves** to identify the aircraft, not the **member** to which it is affixed.

d. Maintenance on **modular** engines is **normally accomplished** by replacing entire **modules**. However, there is a need to maintain a continuous history on the basic engine (notwithstanding that every **module** may have been replaced any **number of times**) which is predicated on the engine ID plate, serial number, and **historical/modification** records. Additionally, **modular** type engines also contain a **number** of non-modular **components** (e.g., fuel lines, accessories, etc.) which are controlled by the engine serial **number** on the ID plate and corresponding historical/modification records.

e. The FAA is aware that some aircraft operators/repair stations do not **remove** the engine ID plate from the **module** to which it is affixed when the particular **module** is: (1) **DAMAGED AND MUST BE REPLACED**; and, (2) **REMOVED FOR MAINTENANCE AND WILL NOT BE REINSTALLED ON THE ENGINE FROM WHICH IT WAS REMOVED**. Similarly, they install replacement **modules** on which an engine ID plate (belonging to another engine assembly) is affixed. This essentially constitutes an exchange of ID plates resulting in a loss of identity (historical/modification data) for both engines, **as well as being in noncompliance with FAR Section 45.13(c) and/or (e)**. The changing of engine ID plates, including serial numbers from engine to engine, or failure to **remove** and reinstall engine ID plates when the **module** to which they are attached is required to be removed for maintenance, inhibits positive control of both **modular** and non-modular **components**. This control is needed, since the engine ID plate and the information contained thereon provides positive correlation between the engine and the required historical/modification records. The engine ID plate also serves as a baseline to control all activity **accomplished** on a **particular engine** (i.e., configuration, **AD compliance**, overhaul, life limited parts, noise/mission, **module** changes, **compliance**, etc.) throughout the entire service life of the engine.

##### 5. GENERAL INFORMATION.

a. Except as otherwise provided for in FAR 45.13(d) no person may **remove**, change, or place the identification **information** (required by FAR 45.13(a)) on an engine ID plate, or **remove** or install any engine ID plate (required by FAR 45.11) without the approval of the Administrator.

b. FAR 45.13(b) prohibits the unauthorized **removal**, change, or **placement** of identification **information** required by FAR 45.13(a) on any aircraft engine. However, FAR 45.13(d)(1) authorizes **removal**, change, or replacement of the identification **information** required by FAR 45.13(a) on any engine but only when it is necessary and **accomplished** by persons performing work under the provisions of FAR Part 43. The change of identification **information** **would** be considered **necessary** when **accomplished** in **compliance** with specific maintenance procedures contained in **manufacturer's manuals**, letters, or **bulletins** including those that are incorporated in and **made** a part of an airworthiness directive.

c. FAR 45.13(c) provides an exception, whereby persons performing maintenance **under** the provisions of FAR Part 43, **maintenance**, preventive maintenance, rebuilding, and alteration, **may remove** the identification plate required by FAR Section 45.11 when necessary during maintenance operations.

(1) **Removal** of an ID plate **would** be considered necessary during certain **maintenance** operations such as caustic cleaning, paint **removal**, or **sandblasting**. **Removal** of an ID plate **would also be** considered necessary when the structure to which the ID plate is fastened has to be repaired or replaced for **maintenance purposes**.

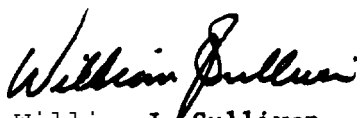
(2) An engine ID plate **removed** during maintenance operations **must** be reinstalled on the same engine in the original location **from** which it was **removed** prior to releasing the **engine** to service.

(3) An engine ID plate **cannot** be **replaced** by persons performing maintenance **under** the provisions of FAR 43 **without** the approval of the Administrator.

d. The **engine ID** plate, when **permanently** affixed, serves at all times as the control for establishing **and** maintaining the **engine** approval status. Accordingly, the identification plate installed by the **engine** manufacturer **must remain** with the particular **engine** throughout its useful life unless **otherwise** authorized by the Administrator.

6. **PROCEDURE**. When the **module** to which the **engine ID** plate is affixed is **removed** from an engine, **and** it is to be replaced with **another module** that is **new**, or that has **been** repaired or overhauled, the **engine ID** plate **shall be** transferred **from the module** that was **removed to the module** installed in its place. Upon **completion** of the **module and engine ID** plate **change**, an entry **must** be made in the maintenance record as required by FAR Sections 43.9 and 43.11.

7. **OTHER METHODS**. It should be recognized that methods other than those described in this AC may be implemented when they are found acceptable to the Administrator.



William J. Sullivan  
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